

Title (en)
PROCESS FOR THE PREPARATION OF 3-(1-HYDROXYALKYL)-5,5-DIPHENYLHYDANTOIN

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Application
EP 87906238 A 19870825

Priority
US 90914086 A 19860919

Abstract (en)
[origin: US4709042A] Described is a process for preparing 2-(1-hydroxyalkyl)-5,5-diphenylhydantoin having the formula <IMAGE> wherein R1, R2 and R3 are each independently hydrogen, C1-C20 alkyl, C3-C12 cycloalkyl, C7-C15 aralkyl, unsubstituted or substituted aryl or heteroaryl or alternatively, or R1 and R2 together with the carbon atom form a 3 to 12 member cycloalkyl group, the process comprising: reacting diphenylhydantoin with an aldehyde or a ketone in the presence of a strong inorganic base; an alcohol was used as solvent to solubilize the reactants. The reaction is practically complete in 15 minutes. The compounds so prepared are intermediates in the preparation of phenyltoin prodrugs.

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Zaugg and Martin, Organic Reactions, vol. 14, 1965, pp. 107-108

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